

APPENDIX G

Boring Logs

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-1	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/24/06	DATE FINISHED: 8/24/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 13.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-PTO		DEPTH TO WATER (ft.)	FIRST ~8.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample Blows/ Foot				
					Surface Elevation: Not surveyed	
1				5.8	SILTY SAND (SM): very dark gray (10YR 3/1), moist, 80% fine to medium sand, 20% low plasticity fines	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2					SILT (ML): gray (10YR 5/1), moist, 90% fines, 10% fine sand, firm, low plasticity	
3				10.1		
4						
5				460	SILTY SAND (SM): brown mottled black and beige moist, 80% fine to medium sand, 20% low plasticity fines, odor	Grab groundwater sample GMX-1 collected through 3/4-inch O.D. PVC temporary well casing with 5 feet of stainless steel-wrapped well screen (0.010-inch slot size) pre-packed with 2/20 sand (screen interval 8 to 13 feet bgs).
6						
7				884	SANDY SILT (ML): pale brown and black (10YR 6/3), moist, 70% fines, 30% fine to coarse sand, firm, low plasticity, odor; silt and sand layers are intermingled and appear to be reworked native material	
8						
9				>1129	wet, sheen	
10						
11				49	POORLY GRADED SAND with SILT (SP-SM): brown to black (5Y 2.5/1), wet, 90% fine to coarse sand, 10% low plasticity fines, iron-stained, odor	
12						
13					Bottom of boring at 13.0 feet.	
14						
15						
16						
17						



PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-2	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/24/06	DATE FINISHED: 8/24/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 13.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-PTO		DEPTH TO WATER (ft.)	FIRST ~9.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1				339	SILTY SAND (SM): very dark gray (10YR 3/1), moist, 80% fine to medium sand, 20% low plasticity fines	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2					SANDY SILT (ML): dark gray mottled pale brown (10YR 4/1), moist, 70% fines, 30% fine to coarse sand, low plasticity, firm	
3				436		
4						
5					black/pale brown laminations (native?); odor	Grab groundwater sample GMX-2 collected through 3/4-inch O.D. PVC temporary well casing with 5 feet of stainless steel-wrapped well screen (0.010-inch slot size) pre-packed with 2/20 sand (screen interval 8 to 13 feet bgs).
6				320		
7						
8					POORLY GRADED SAND with SILT (SP-SM): black (5Y 2.5/1), moist, 90% fine to medium sand, 10% low plasticity fines, odor, sheen	
9				>1063	wet	
10						
11				761		
12						
13					Bottom of boring at 13.0 feet.	
14						
15						
16						
17						

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-3	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/24/06	DATE FINISHED: 8/24/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-PTO		DEPTH TO WATER (ft.): ~7.5	FIRST ~7.5
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		COMPL. NA	
HAMMER WEIGHT: NA		LOGGED BY: Z. Satterwhite	
DROP: NA		RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1				1.2	SILTY SAND (SM): very dark gray (10YR 3/1), moist, 65% fine sand, 25% low plasticity fines, 10% fine to coarse gravel	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2					SILT with SAND (ML): grayish brown (10YR 5/2), moist, 85% fines, 15% fine sand, firm, low plasticity	
3						
4						
5				1.5	SILTY SAND (SM): grayish brown (10YR 5/2), moist, 65% fine sand, 45% low plasticity silt, laminations varving (native?)	Grab groundwater sample GMX-3 collected through 3/4-inch O.D. PVC temporary well casing with 5 feet of stainless steel-wrapped well screen (0.010-inch slot size) pre-packed with 2/20 sand (screen interval 10 to 15 feet bgs).
6				1.5	damp/slightly wet	
7						
8					SANDY SILT (ML): pale brown (10YR 6/3), wet, 65% fines, 45% fine sand, low plasticity, firm, laminations	
9				2.1		
10						
11				1.8		
12					POORLY GRADED SAND with SILT (SP-SM): black (5Y 2.5/1), wet, 90% fine to coarse sand, 10% low plasticity fines	
13						
14				1.1		
15					Bottom of boring at 15.0 feet.	
16						
17						

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington				Log of Boring No. GMX-4			
BORING LOCATION: East Parcel				ELEVATION AND DATUM: Not surveyed; datum is ground surface			
DRILLING CONTRACTOR: Cascade Drilling, Inc.				DATE STARTED: 8/24/06		DATE FINISHED: 8/24/06	
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 14.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: Power Probe 9630 Pro-PTO				DEPTH TO WATER (ft.)		FIRST -7.5	COMPL. NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]				LOGGED BY: Z. Satterwhite			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Long			REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1				0.5	SILTY SAND (SM): very dark gray (10YR 3/1), moist, 65% fine sand, 25% low plasticity fines, 10% fine to coarse gravel	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard. Grab groundwater sample GMX-4 collected through 3/4-inch O.D. PVC temporary well casing with 5 feet of stainless steel-wrapped well screen (0.010-inch slot size) pre-packed with 2/20 sand (screen interval 7 to 12 feet bgs).
2				0.5	SILT with SAND (ML): grayish brown (10YR 5/2), moist, 85% fines, 15% fine sand, firm, low plasticity	
3					↓ laminations (native?)	
4					SILTY SAND (SM): grayish brown (10YR 5/2), moist, 65% fine sand, 45% low plasticity silt, laminations	
5				0.5		
6				1.0		
7						
8					SANDY SILT (ML): pale brown (10YR 6/3), wet, 65% fines, 45% fine sand, low plasticity, firm, laminations	
9				1.3		
10						
11				1.4	□ iron oxide staining	
12					POORLY GRADED SAND with SILT (SP-SM): black (5Y 2.5/1), wet, 90% fine to coarse sand, 10% low plasticity fines	
13						
14				0.8	Bottom of boring at 14.0 feet.	
15						
16						
17						

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PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-5	
BORING LOCATION: West Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/24/06	DATE FINISHED: 8/24/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 20.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Power Probe 9630 Pro-PTO		DEPTH TO WATER (ft.) ~13.5	FIRST NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: Z. Satterwhite	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1					SILTY SAND with GRAVEL (SM): dark grayish brown mottled dark orange (10YR 4/2), moist, 65% fine to medium sand, 20% low plasticity fines, 15% fine to coarse subangular to angular gravel, trace black coal	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2				2.0		
3				1.0	↓ SILTY SAND (SM): very dark greenish gray (10Y 3/1), moist, 65% fine to coarse sand, 30% low plasticity fines, 5% fine to coarse gravel	
4						
5				1.0		
6						Grab groundwater samples GMX-5 and GMX-5A (field duplicate) collected through 1-inch O.D. PVC temporary well casing with 5 feet of screen (0.010-inch slot size) not pre-packed (screen interval 13 to 18 feet bgs).
7				1.0	reddish horizon	
8				2.0		
9						
10				1.0	SILT (ML): pale brown mottled dark gray (10YR 6/3), wet, 90% fines, 10% fine sand, low plasticity, firm	
11						
12					SANDY SILT (ML): pale brown mottled dark gray (10YR 6/3), wet, 70% fines, 30% fine to coarse sand, low plasticity, firm, odor	
13				>1099		
14				52	↓ saturated wood	
15					POORLY GRADED SAND with SILT (SP-SM): black (5Y 2.5/1), wet, 90% fine to coarse sand, 10% low plasticity fines	
16						
17						



PROJECT: Former Rhone-Poulenc Site
Tukwila, Washington

Log of Boring No. GMX-5 (cont'd)

DEPTH (feet)	SAMPLES				OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot				
18					70	POORLY GRADED SAND with SILT (SP-SM): (continued)	
19							
20					13	Bottom of boring at 20.0 feet.	
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							



PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-6	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/26/06	DATE FINISHED: 8/26/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: AMS 9630 PTO Probe		DEPTH TO WATER (ft.)	FIRST ~13.0
			COMPL. NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: J. Long	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES				OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
						Surface Elevation: Not surveyed	
1						SILT with SAND (ML): very dark gray (2.5Y 3/1), moist, 90% fines, 10% fine sand, low plasticity, firm	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2					0		
3							
4					0		
5						↓ very dark grayish brown (2.5Y 3/2); 20% fine sand	Grab groundwater sample GMX-6 collected through 1-inch O.D. PVC temporary well casing with 5 feet of screen (0.010-inch slot size) not pre-packed (screen interval 11 to 16 feet bgs).
6							
7							
8					0		
9						SILTY SAND (SM): dark olive brown (2.5Y 3/3), moist, 75% fine to medium sand, 15% medium plasticity silt, 10% fine to coarse subrounded gravel	
10							
11							
12					0		
13						POORLY GRADED SAND (SP): black (5Y 2.5/1), wet, 95% fine to medium sand, 5% fines	
14					0		
15							
16						Bottom of boring at 16.0 feet.	
17							

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-7	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/26/06	DATE FINISHED: 8/26/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: AMS 9630 PTO Probe		DEPTH TO WATER (ft.)	FIRST ~10.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: J. Long	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1					SILT (ML): dark gray (5Y 4/1), dry, 95% fines, 5% fine sand, medium plasticity, firm	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2					SILT with SAND (ML): dark grayish brown (2.5Y 4/2), moist, 85% fines, 15% fine sand, medium plasticity, firm	
3						
4				0	SILTY SAND (SM): dark gray (2.5Y 4/1), moist, 70% fine sand, 30% medium plasticity fines	
5						
6						
7					SILT with SAND (ML): dark grayish brown (2.5Y 4/2), moist, 85% fines, 15% fine sand, low plasticity, firm	Grab groundwater sample GMX-7 collected through 1-inch O.D. PVC temporary well casing with 5 feet of screen (0.010-inch slot size) not pre-packed (screen interval 11 to 16 feet bgs).
8				0		
9					SILTY SAND (SM): dark gray (2.5Y 4/1), wet, 70% fine sand, 30% medium plasticity fines	
10						
11						
12				0	POORLY GRADED SAND (SP): dark gray (2.5Y 4/1), wet, 95% fine to medium sand, 5% fines	
13						
14						
15						
16					Bottom of boring at 16.0 feet.	
17						

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-8	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/26/06	DATE FINISHED: 8/26/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 12.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: AMS 9630 PTO Probe		DEPTH TO WATER (ft.)	FIRST ~10.0
			COMPL. NA
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		LOGGED BY: J. Long	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1					SILT (ML): very dark grayish brown (2.5Y 3/2), dry, 95% fines, 5% fine sand, low plasticity, firm	OVM = Thermo Environmental 580B PID calibrated with 100 ppm isobutylene standard.
2						
3						
4				16	POORLY GRADED SAND with SILT (SP-SM): dark grayish brown (2.5Y 4/2), moist, 90% fine sand, 10% low plasticity fines	
5						
6						
7						
8				>3000	↓ strong toluene odor; silt content increasing	
9						
10				120		
11					SILT with SAND (ML): very dark gray (2.5Y 3/1), wet, 75% fines, 25% fine sand, low plasticity, firm, less odor	
12				0.0	POORLY GRADED SAND (SP): very dark gray (2.5Y 3/1), wet, 95% fine to medium sand, 5% fines	
13					Bottom of boring at 12.0 feet.	
14						
15						
16						
17						

PROJECT: Former Rhone-Poulenc Site Tukwila, Washington					Log of Boring No. GMX-9				
BORING LOCATION: East Parcel					ELEVATION AND DATUM: Not surveyed; datum is ground surface				
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 8/26/06		DATE FINISHED: 8/26/06		
DRILLING METHOD: Direct push					TOTAL DEPTH (ft.): 12.2		MEASURING POINT: Ground surface		
DRILLING EQUIPMENT: AMS 9630 PTO Probe					DEPTH TO WATER (ft.):		FIRST ~10.0	COMPL. NA	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]					LOGGED BY: J. Long				
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: J. Long			REG. NO. L.Hg. 1354	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1				<1.0	SILT (ML): dark grayish brown (2.5Y 4/2), moist, 95% fines, 5% fine sand, medium plasticity, firm	OVM = VX-500 Industrial Scientific PID calibrated with 100 ppm isobutylene standard.
2						
3						
4						
5				0.5	SILTY SAND (SM): dark gray (2.5Y 4/1), moist, 60% fine to medium sand, 40% non-plastic fines, light 1-3mm bedding	
6						
7						
8				10	SANDY SILT (ML): dark gray (2.5Y 4/1), moist, 75% fines, 25% fine sand, medium plasticity, firm	
9						
10						
11				10	SILTY SAND (SM): dark gray (2.5Y 4/1), moist, 80% fine sand, 20% low plasticity fines ↓ wet	
12						
13						
14					POORLY GRADED SAND (SP): very dark gray (2.5Y 3/1), wet, 95% fine to medium sand, 5% fines Bottom of boring at 12.2 feet.	
15						
16						
17						

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PROJECT: Former Rhone-Poulenc Site Tukwila, Washington		Log of Boring No. GMX-10	
BORING LOCATION: East Parcel		ELEVATION AND DATUM: Not surveyed; datum is ground surface	
DRILLING CONTRACTOR: Cascade Drilling, Inc.		DATE STARTED: 8/26/06	DATE FINISHED: 8/26/06
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 16.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: AMS 9630 PTO Probe		DEPTH TO WATER (ft.)	FIRST ~10.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]		COMPL. NA	
HAMMER WEIGHT: NA		LOGGED BY: J. Long	
DROP: NA		RESPONSIBLE PROFESSIONAL: J. Long	REG. NO. L.Hg. 1354

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. Inter.	
					Surface Elevation: Not surveyed	
1				<1.0	SILT (ML): dark grayish brown (2.5Y 4/2), moist, 95% fines, 5% fine sand, low plasticity, firm	OVM = VX-500 Industrial Scientific PID calibrated with 100 ppm isobutylene standard.
2					CLAYEY SILT (ML): dark grayish brown (2.5Y 4/2), moist, 95% fines, 5% fines sand, medium plasticity, firm	
3						
4				0.0	SILT with SAND (ML): dark grayish brown (2.5Y 4/2), moist, 85% fines, 15% fine sand, medium plasticity, firm	Grab groundwater sample GMX-7 collected through 1-inch O.D. PVC temporary well casing with 5 feet of screen (0.010-inch slot size) not pre-packed (screen interval 11 to 16 feet bgs).
5						
6						
7					some sand to sandy silt	
8						
9						
10					SILTY SAND (SM): very dark grayish brown (2.5Y 4/2), moist, 60% fine to medium sand, 40% low plasticity fines wet	
11				0.0		
12						
13						
14						
15						
16					Bottom of boring at 16.0 feet.	
17						



PROJECT: Former Rhone-Poulenc Site Tukwila, Washington					Log of Boring No. GMX-11				
BORING LOCATION: West Parcel					ELEVATION AND DATUM: Not surveyed; datum is ground surface				
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 8/26/06		DATE FINISHED: 8/26/06		
DRILLING METHOD: Direct push					TOTAL DEPTH (ft.): 16.0		MEASURING POINT: Ground surface		
DRILLING EQUIPMENT: Diedrich D-25					DEPTH TO WATER (ft.)		FIRST ~11.0	COMPL. NA	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]					LOGGED BY: J. Long				
HAMMER WEIGHT: NA		DROP: NA			RESPONSIBLE PROFESSIONAL: J. Long			REG. NO. L.Hg. 1354	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1					POORLY GRADED SAND (SP): brown (7.5YR 4/3), moist, 95% fine to medium sand, 5% fines	OVM = VX-500 Industrial Scientific PID calibrated with 100 ppm isobutylene standard.
2						
3					↓ very dark gray (2.5Y 3/1)	
4				0.0		
5						
6					□ sand with irregular 1-2" gravel (fill); some silt	
7						
8				0.0	□ SILTY SAND (SM)	
9					SILT (ML): light olive brown (2.5Y 5/3), moist, 95% fines, 5% fine sand, medium plasticity, firm	
10				>4000	SILTY SAND (SM): very dark gray (2.5Y 3/1), moist, 70% fine sand, 30% low plasticity fines	
11						
12						
13					POORLY GRADED SAND (SP): very dark gray (2.5Y 3/1), wet, 95% fine to medium sand, 5% fines, very strong odor	
14						
15				1500		
16					Bottom of boring at 16.0 feet.	
17						

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PROJECT: Former Rhone-Poulenc Site Tukwila, Washington					Log of Boring No. GMX-12					
BORING LOCATION: West Parcel					ELEVATION AND DATUM: Not surveyed; datum is ground surface					
DRILLING CONTRACTOR: Cascade Drilling, Inc.					DATE STARTED: 8/26/06		DATE FINISHED: 8/26/06			
DRILLING METHOD: Direct push					TOTAL DEPTH (ft.): 12.2		MEASURING POINT: Ground surface			
DRILLING EQUIPMENT: Diedrich D-25					DEPTH TO WATER (ft.)		FIRST NA		COMPL. NA	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5"]					LOGGED BY: J. Long					
HAMMER WEIGHT: NA			DROP: NA		RESPONSIBLE PROFESSIONAL: J. Long				REG. NO. L.Hg. 1354	

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample Blows/ Foot	Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: Not surveyed	
1					No log from 0 to 8 feet bgs, due to liner shortage.	OVM = VX-500 Industrial Scientific PID calibrated with 100 ppm isobutylene standard.
2						
3						
4						
5						
6						
7						
8						
9					SILT (ML): grayish brown (2.5Y 5/2), wet, 95% fines, 5% fine sand, medium plasticity, firm, fine layering, mottled	No PID response at 1 inch above contact.
10						
11						
12				<1.0 >4000	POORLY GRADED SAND (SP): very dark gray (2.5Y 3/1), moist, 95% fine to medium sand, 5% fines, dark rounded grains, very strong toluene odor Bottom of boring at 12.2 feet.	
13						
14						
15						
16						
17						

Geomatrix Consultants

Project No. 8769.006
OAKBOREX (REV. 3/00)

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